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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/987,376	11/14/2001	William D. Wilber	A8241 6692			
7590 01/26/2005			EXAM	EXAMINER		
SUGHRUE MION, PLLC			JONES, STEPHEN E			
2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213			ART UNIT	PAPER NUMBER		
			2817			
			DATE MAILED: 01/26/200	5		

Please find below and/or attached an Office communication concerning this application or proceeding.

					IN.	, ,		
		Application	n No.	Applicant(s)	· · · · · ·			
Office Action Summary		09/987,37	6	WILBER ET AL.				
		Examiner		Art Unit				
		Stephen E	. Jones	2817				
Period fo	The MAILING DATE of this communication a or Reply	appears on the	cover sheet with the	correspondence ad	dress			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repriod for reply is specified above, the maximum statutory perion to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the may ed patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no ever reply within the statu od will apply and will tute, cause the appl	nt, however, may a reply be to tory minimum of thirty (30) do I expire SIX (6) MONTHS fro cation to become ABANDON	imely filed ays will be considered timel m the mailing date of this co ED (35 U.S.C. § 133).	y. ommunication.			
Status								
1)⊠	Responsive to communication(s) filed on 27	October 2004	1 .					
2a)□	•	his action is n						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 64-80 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 64-80 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers			v				
9)[The specification is objected to by the Exami	iner.						
10)	The drawing(s) filed on is/are: a) a							
	Applicant may not request that any objection to the							
11)	Replacement drawing sheet(s) including the corr. The oath or declaration is objected to by the							
Priority	under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for forei All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a least	ents have bee ents have bee riority docume eau (PCT Rul	n received. n received in Applica ents have been recei e 17.2(a)).	ntion No ved in this National	Stage			
Attachmer	nt(s)							
	ce of References Cited (PTO-892)	ry (PTO-413)						
3) Info	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 er No(s)/Mail Date	08)	Paper No(s)/Mail 5) Notice of Informa 6) Other:		0-152)			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/27/04 has been entered.

Claim Objections

2. Claims 71 and 79 are objected to because of the following informalities:

Regarding Claim 71, It appears that the phrase "wherein in an effected area of conductive plating is one of removing the conductive plating and indenting the conductive plating" would be more clear if it read as --wherein the effected area of conductive plating is one of removed conductive plating and indented conductive plating to improve the grammatical form.

Regarding Claim 79 (line 2), it appears that the phrase "the block" should read as --a block-- since the block has not been previously recited.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 79-80 are rejected under 35 U.S.C. 102(b) as being anticipated by Blum et al.

Blum et al teaches removed rectangular slot portions (e.g. 72b) of the outer conductor of a block resonate filter. Inherently the device would function equivalently to the present claims, especially since it is the same structure as the presently claimed structure.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 64-66, 68-75, and 77-78 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishitobi (JP 09148810) in view of Blum et al.

Ishitobi teaches a dielectric block triple mode resonator including a shielding on the outer surface (e.g. see the translation section 10).

However, Ishitobi does not explicitly teach a tuning element such as a slot or rectangle void or decreased thickness in the outer conductor that is selected to increase or decrease a resonant frequency (Claims 64-66, 68-75, and 77-78).

Blum teaches removed rectangular slot portions (e.g. 72b) of the outer conductor of a block resonator filter.

It would have been considered obvious to one of ordinary skill in the art to have modified the Ishitobi resonator to have included rectangular slots (i.e. reduced thickness since the material is removed) such as taught by Blum, because it would have provided the advantageous benefit of tuning to decrease the resonant frequency (see Blum Col. 6, lines 50-55), thereby suggesting the obviousness of such a modification. Also, since the combination results in the same structure as the present claims, as an obvious consequence it would function in the same manner.

8. Claims 67 and 76 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishitobi (JP 09148810) and Blum et al. as applied to claims 64-65 and 73 above, and further in view of Matsumoto et al. (US 2001/0028287).

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The combination of Ishitobi and Blum teaches a dielectric block triple mode resonator including a shielding on the outer surface (e.g. see the translation section 10) having a removed portion for tuning.

However, the combination does not explicitly teach that the tuning element has a circular pattern.

Matsumoto et al. provides the exemplary teaching of providing circular removed portions in the metallization of a dielectric resonator (e.g. see Fig. 4).

It would have been considered obvious to one of ordinary skill in the art to have substituted circular removed portions such as taught by Matsumoto in place of the rectangular portions in the combination of Ishitobi and Blum, because it would have been considered a mere optimization of the tuning characteristics using well-known geometric tuning shapes while providing the advantageous benefit of increasing the resonant frequency (e.g. see Matsumoto Section 95), thereby suggesting the obviousness of such a modification.

Response to Arguments

9. Applicant's arguments with respect to claims 64-80 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hiroyuki (JP 406177607A) teaches a dielectric filter including various tuning shapes (e.g. see Fig. 6).

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Kneisel et al. teaches removing round portions of an outer conductor for tuning.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen E. Jones whose telephone number is 571-272-1762. The examiner can normally be reached on Monday through Friday from 8 AM to 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

STEPHEN E. JONES
PRIMARY EXAMINER

SEJ